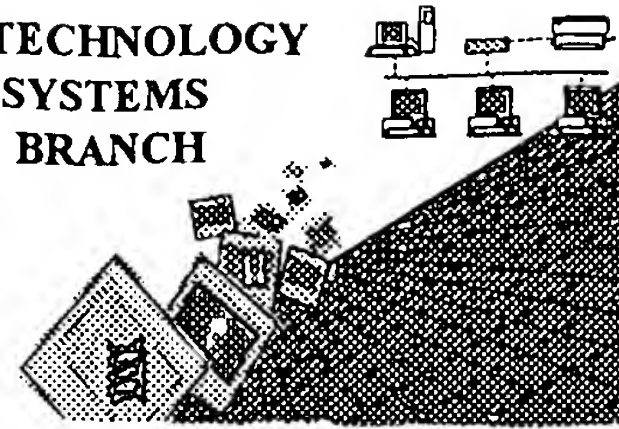


BIOTECHNOLOGY  
SYSTEMS  
BRANCH



RAW SEQUENCE LISTING  
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/087,782  
Source: OLPE  
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THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

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FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or phone 703-306-4119 (R. Wax)

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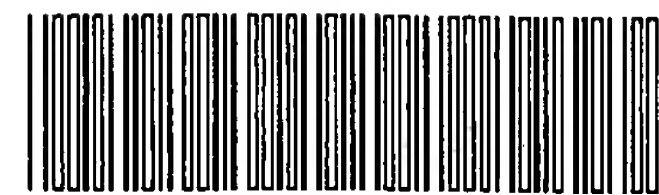
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OIPE

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/087,782

DATE: 03/20/2002

TIME: 16:25:09

Input Set : A:\PTO.VSK.txt

Output Set: N:\CRF3\03202002\J087782.raw

*pg 1,5*  
Does Not Comply  
Corrected Diskette Needed

3 <110> APPLICANT: AVENTIS PHARMA SA  
4 US GOVERNMENT of the UNITED STATES  
6 <120> TITLE OF INVENTION: NUCLEIC ACID OF THE HUMAN ABCC11 GENE, VECTORS  
7 CONTAINING SUCH NUCLEIC ACID, AND USES THEREOF  
9 <130> FILE REFERENCE: ABCC11 GENE  
11 <140> CURRENT APPLICATION NUMBER: US/10/087,782  
12 <141> CURRENT FILING DATE: 2002-03-05  
14 <150> PRIOR APPLICATION NUMBER: 60/272,757  
15 <151> PRIOR FILING DATE: 2001-03-05  
17 <160> NUMBER OF SEQ ID NOS: 31  
19 <170> SOFTWARE: PatentIn Ver. 2.1

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E--> 113 <212> TYPE: ADN *DNA*  
114 <213> ORGANISM: Homo sapiens  
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451 Tyr Lys Thr Tyr Thr Leu Gln Asp Gly Pro Trp Ser Gln Gln Glu Arg  
452 35 40 45  
454 Asn Pro Glu Ala Pro Gly Arg Ala Ala Val Pro Pro Trp Gly Lys Tyr  
455 50 55 60  
457 Asp Ala Ala Leu Arg Thr Met Ile Pro Phe Arg Pro Lys Pro Arg Phe  
458 65 70 75 80

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464      100      105      110
466 Asp Glu Asn Thr Ile Pro Pro Leu Ser Val His Asp Ala Ser Asp Lys
467      115      120      125
469 Asn Val Gln Arg Leu His Arg Leu Trp Glu Glu Glu Val Ser Arg Arg
470      130      135      140
472 Gly Ile Glu Lys Ala Ser Val Leu Leu Val Met Leu Arg Phe Gln Arg
473 145      150      155      160
475 Thr Arg Leu Ile Phe Asp Ala Leu Leu Gly Ile Cys Phe Cys Ile Ala
476      165      170      175
478 Ser Val Leu Gly Pro Ile Leu Ile Ile Pro Lys Ile Leu Glu Tyr Ser
479      180      185      190
481 Glu Glu Gln Leu Gly Asn Val Val His Gly Val Gly Leu Cys Phe Ala
482      195      200      205
484 Leu Phe Leu Ser Glu Cys Val Lys Ser Leu Ser Phe Ser Ser Ser Trp
485      210      215      220
487 Ile Ile Asn Gln Arg Thr Ala Ile Arg Phe Arg Ala Ala Val Ser Ser
488 225      230      235      240
490 Phe Ala Phe Glu Lys Leu Ile Gln Phe Lys Ser Val Ile His Ile Thr
491      245      250      255
493 Ser Gly Glu Ala Ile Ser Phe Phe Thr Gly Asp Val Asn Tyr Leu Phe
494      260      265      270
496 Glu Gly Val Cys Tyr Gly Pro Leu Val Leu Ile Thr Cys Ala Ser Leu
497      275      280      285
499 Val Ile Cys Ser Ile Ser Ser Tyr Phe Ile Ile Gly Tyr Thr Ala Phe
500      290      295      300
502 Ile Ala Ile Leu Cys Tyr Leu Leu Val Phe Pro Leu Ala Val Phe Met
503 305      310      315      320
505 Thr Arg Met Ala Val Lys Ala Gln His His Thr Ser Glu Val Ser Asp
506      325      330      335
508 Gln Arg Ile Arg Val Thr Ser Glu Val Leu Thr Cys Ile Lys Leu Ile
509      340      345      350
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512      355      360      365
514 Arg Arg Lys Glu Arg Lys Leu Leu Glu Lys Cys Gly Leu Val Gln Ser
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517 Leu Thr Ser Ile Thr Leu Phe Ile Ile Pro Thr Val Ala Thr Ala Val
518 385      390      395      400
520 Trp Val Leu Ile His Thr Ser Leu Lys Leu Lys Leu Thr Ala Ser Met
521      405      410      415
523 Ala Phe Ser Met Leu Ala Ser Leu Asn Leu Leu Arg Leu Ser Val Phe
524      420      425      430
526 Phe Val Pro Ile Ala Val Lys Gly Leu Thr Asn Ser Lys Ser Ala Val
527      435      440      445
529 Met Arg Phe Lys Lys Phe Phe Leu Gln Glu Ser Pro Val Phe Tyr Val
530      450      455      460
532 Gln Thr Leu Gln Asp Pro Ser Lys Ala Leu Val Phe Glu Glu Ala Thr

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538	Leu	Glu	Arg	Asn	Gly	His	Ala	Ser	Gly	Met	Thr	Arg	Pro	Arg	Asp	
539				500					505				510			
541	Ala	Leu	Gly	Pro	Glu	Glu	Glu	Gly	Asn	Ser	Leu	Gly	Pro	Glu	Leu	His
542			515					520				525				
544	Lys	Ile	Asn	Leu	Val	Val	Ser	Lys	Gly	Met	Met	Leu	Gly	Val	Cys	Gly
545		530					535					540				
547	Asn	Thr	Gly	Ser	Gly	Lys	Ser	Ser	Leu	Leu	Ser	Ala	Ile	Leu	Glu	Glu
548	545					550					555				560	
550	Met	His	Leu	Leu	Glu	Gly	Ser	Val	Gly	Val	Gln	Gly	Ser	Leu	Ala	Tyr
551					565				570						575	
553	Val	Pro	Gln	Gln	Ala	Trp	Ile	Val	Ser	Gly	Asn	Ile	Arg	Glu	Asn	Ile
554				580					585					590		
556	Leu	Met	Gly	Gly	Ala	Tyr	Asp	Lys	Ala	Arg	Tyr	Leu	Gln	Val	Leu	His
557			595					600					605			
559	Cys	Cys	Ser	Leu	Asn	Arg	Asp	Leu	Glu	Leu	Leu	Pro	Phe	Gly	Asp	Met
560		610					615					620				
562	Thr	Glu	Ile	Gly	Glu	Arg	Gly	Leu	Asn	Leu	Ser	Gly	Gly	Gln	Lys	Gln
563	625					630					635				640	
565	Arg	Ile	Ser	Leu	Ala	Arg	Ala	Val	Tyr	Ser	Asp	Arg	Gln	Ile	Tyr	Leu
566					645				650					655		
568	Leu	Asp	Asp	Pro	Leu	Ser	Ala	Val	Asp	Ala	His	Val	Gly	Lys	His	Ile
569				660					665					670		
571	Phe	Glu	Glu	Cys	Ile	Lys	Lys	Thr	Leu	Arg	Gly	Lys	Thr	Val	Val	Leu
572			675					680					685			
574	Val	Thr	His	Gln	Leu	Gln	Tyr	Leu	Glu	Phe	Cys	Gly	Gln	Ile	Ile	Leu
575		690					695					700				
577	Leu	Glu	Asn	Gly	Lys	Ile	Cys	Glu	Asn	Gly	Thr	His	Ser	Glu	Leu	Met
578	705					710					715				720	
580	Gln	Lys	Lys	Gly	Lys	Tyr	Ala	Gln	Leu	Ile	Gln	Lys	Met	His	Lys	Glu
581					725						730				735	
583	Ala	Thr	Ser	Asp	Met	Leu	Gln	Asp	Thr	Ala	Lys	Ile	Ala	Glu	Lys	Pro
584				740					745					750		
586	Lys	Val	Glu	Ser	Gln	Ala	Leu	Ala	Thr	Ser	Leu	Glu	Glu	Ser	Leu	Asn
587			755					760					765			
589	Gly	Asn	Ala	Val	Pro	Glu	His	Gln	Leu	Thr	Gln	Glu	Glu	Glu	Met	Glu
590		770					775					780				
592	Glu	Gly	Ser	Leu	Ser	Trp	Arg	Val	Tyr	His	His	Tyr	Ile	Gln	Ala	Ala
593	785					790					795				800	
595	Gly	Gly	Tyr	Met	Val	Ser	Cys	Ile	Ile	Phe	Phe	Phe	Val	Val	Leu	Ile
596					805					810					815	
598	Val	Phe	Leu	Thr	Ile	Phe	Ser	Phe	Trp	Trp	Leu	Ser	Tyr	Trp	Leu	Glu
599				820					825					830		
601	Gln	Gly	Ser	Gly	Thr	Asn	Ser	Ser	Arg	Glu	Ser	Asn	Gly	Thr	Met	Ala
602			835					840					845			
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608 865                      870                      875                      880
610 Ser Gly Ile Phe Thr Lys Val Thr Arg Lys Ala Ser Thr Ala Leu His
611                      885                      890                      895
613 Asn Lys Leu Phe Asn Lys Val Phe Arg Cys Pro Met Ser Phe Phe Asp
614                      900                      905                      910
616 Thr Ile Pro Ile Gly Arg Leu Leu Asn Cys Phe Ala Gly Asp Leu Glu
617                      915                      920                      925
619 Gln Leu Asp Gln Leu Leu Pro Ile Phe Ser Glu Gln Phe Leu Val Leu
620                      930                      935                      940
622 Ser Leu Met Val Ile Ala Val Leu Leu Ile Val Ser Val Leu Ser Pro
623 945                      950                      955                      960
625 Tyr Ile Leu Leu Met Gly Ala Ile Ile Met Val Ile Cys Phe Ile Tyr
626                      965                      970                      975
628 Tyr Met Met Phe Lys Lys Ala Ile Gly Val Phe Lys Arg Leu Glu Asn
629                      980                      985                      990
631 Tyr Ser Arg Ser Pro Leu Phe Ser His Ile Leu Asn Ser Leu Gln Gly
632                      995                      1000                      1005
634 Leu Ser Ser Ile His Val Tyr Gly Lys Thr Glu Asp Phe Ile Ser Gln
635 1010                      1015                      1020
637 Phe Lys Arg Leu Thr Asp Ala Gln Asn Asn Tyr Leu Leu Leu Phe Leu
638 1025                      1030                      1035                      1040
640 Ser Ser Thr Arg Trp Met Ala Leu Arg Leu Glu Ile Met Thr Asn Leu
641                      1045                      1050                      1055
643 Val Thr Leu Ala Val Ala Leu Phe Val Ala Phe Gly Ile Ser Ser Thr
644                      1060                      1065                      1070
646 Pro Tyr Ser Phe Lys Val Met Ala Val Asn Ile Val Leu Gln Leu Ala
647 1075                      1080                      1085
649 Ser Ser Phe Gln Ala Thr Ala Arg Ile Gly Leu Glu Thr Glu Ala Gln
650 1090                      1095                      1100
652 Phe Thr Ala Val Glu Arg Ile Leu Gln Tyr Met Lys Met Cys Val Ser
653 1105                      1110                      1115                      1120
655 Glu Ala Pro Leu His Met Glu Gly Thr Ser Cys Pro Gln Gly Trp Pro
656                      1125                      1130                      1135
658 Gln His Gly Glu Ile Ile Phe Gln Asp Tyr His Met Lys Tyr Arg Asp
659                      1140                      1145                      1150
661 Asn Thr Pro Thr Val Leu His Gly Ile Asn Leu Thr Ile Arg Gly His
662                      1155                      1160                      1165
664 Glu Val Val Gly Ile Val Gly Arg Thr Gly Ser Gly Lys Ser Ser Leu
665 1170                      1175                      1180
667 Gly Met Ala Leu Phe Arg Leu Val Glu Pro Met Ala Gly Arg Ile Leu
668 1185                      1190                      1195                      1200
670 Ile Asp Gly Val Asp Ile Cys Ser Ile Gly Leu Glu Asp Leu Arg Ser
671                      1205                      1210                      1215
673 Lys Leu Ser Val Ile Pro Gln Asp Pro Val Leu Leu Ser Gly Thr Ile
674                      1220                      1225                      1230
676 Arg Phe Asn Leu Asp Pro Phe Asp Arg His Thr Asp Gln Gln Ile Trp
677                      1235                      1240                      1245
679 Asp Ala Leu Glu Arg Thr Phe Leu Thr Lys Ala Ile Ser Lys Phe Pro

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PATENT APPLICATION: US/10/087,782

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Input Set : A:\PTO.VSK.txt

Output Set: N:\CRF3\03202002\J087782.raw

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683 1265      1270      1275      1280
685 Gly Glu Arg Gln Leu Leu Cys Ile Ala Arg Ala Val Leu Arg Asn Ser
686      1285      1290      1295
688 Lys Ile Ile Leu Ile Asp Glu Ala Thr Ala Ser Ile Asp Met Glu Thr
689      1300      1305      1310
691 Asp Thr Leu Ile Gln Arg Thr Ile Arg Glu Ala Phe Gln Gly Cys Thr
692      1315      1320      1325
694 Val Leu Val Ile Ala His Arg Val Thr Thr Val Leu Asn Cys Asp His
695      1330      1335      1340
697 Ile Leu Val Met Gly Asn Gly Lys Val Val Glu Phe Asp Arg Pro Glu
698 1345      1350      1355      1360
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701      1365      1370      1375
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VERIFICATION SUMMARY

PATENT APPLICATION: US/10/087,782

DATE: 03/20/2002

TIME: 16:25:10

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L:113 M:310 E: (3) Wrong or Missing Sequence Type, TYPE:

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